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CJ*

WHAT IS CLAIMED IS:

1. A cutting apparatus for a welding machine comprising a pair of upper and lower blade portions facing to each other, an upper blade portion ascending/descending link means for moving the upper blade portion up and down to the lower blade portion, a plurality of ascending/descending guide means for guiding abutment between the upper and lower blade portions, and an ascending/descending drive means for ascending/descending the upper blade portion through said upper blade portion ascending/descending link means,

wherein at least one of each of the upper blade portion ascending/descending guide means, the lower blade portion ascending/descending guide means and the ascending/descending guide means for holding a clearance between the upper and lower blade portions is used in common as a co-use ascending/descending means out of said plurality of ascending/descending guide means.

2. The cutting apparatus for a welding machine, according to claim 1, wherein said co-use ascending/descending guide means engages end portions of the upper and lower blade portions movably up and down with a guide shaft provided in an apparatus frame so as to extend in parallel with an abutment direction of the upper and lower blade portions.

3. A cutting apparatus for a welding machine, comprising a pair of upper and lower blade portions facing to each other, an upper blade portion ascending/descending link means for moving the

upper blade portion up and down to the lower blade portion, a plurality of ascending/descending guide means for guiding the abutment between the upper and lower blade portions, and an ascending/descending drive means for ascending/descending the upper blade portion through said upper blade portion ascending/descending link means,

further comprising a hydraulic drive means normally depending upon the operation of said upper blade portion ascending/descending link means and working as a drive source for said upper blade portion ascending/descending link means when necessary, in conjunction with said upper blade portion ascending/descending link means.

4. The cutting apparatus for a welding machine, according to claim 1, further comprising a hydraulic drive means normally depending upon the operation of said upper blade portion ascending/descending link means and working as a drive source for said upper blade portion ascending/descending link means when necessary, in conjunction with said upper blade portion ascending/descending link means.

5. The cutting apparatus for a welding machine, according to claim 1, further comprising a hydraulic drive means normally depending upon the operation of said upper blade portion ascending/descending link means and working as a drive source for said upper blade portion ascending/descending link means when necessary, in conjunction with said upper blade portion.

6. The cutting apparatus for a welding machine, according to claim 5, wherein at least one ascending/descending guide means other than the co-use ascending/descending guide means is provided with a guide hydraulic drive means, and a piston rod of a hydraulic cylinder as said guide hydraulic drive means is used as a guide shaft.

7. The cutting apparatus for a welding machine, according to claim 4, wherein the hydraulic drive means is a hydraulic swing motor, and an output shaft of said swing motor is coupled detachably to the upper blade portion ascending/descending link means.

8. The cutting apparatus for a welding machine, according to claim 7, wherein the hydraulic swing motor is provided with a solenoid valve for opening/closing a hydraulic circuit of the swing motor so as to operate or stop the swing motor.

*and  
as?*